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Applicant : Robert L. Maresca et al.,
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Amendments to the Claims:

The following is a listing of all claims and replaces all prior listings.

Listing of Claims:

1. (original) Position detection apparatus, comprising:
 - an accelerometer for providing an acceleration signal representative of acceleration of a movable element,
 - a combining network having an acceleration input for receiving said acceleration signal, a position input for receiving a position signal representative of position of said movable element, and an output for providing an inferred position signal representative of an inferred position of said movable element,
 - said network including a first signal processor for processing said acceleration signal to provide a modified acceleration signal, said first signal processor comprising a low-pass filter,
 - a second signal processor for processing said position signal to provide a modified position signal, and
 - a combiner for additively combining said modified acceleration signal with said modified position signal to provide said inferred position signal.
2. (original) Position detection apparatus in accordance with claim 1, further comprising:
 - a second accelerometer, for providing a reference element signal representative of acceleration of a reference element;
 - a differential acceleration measuring element, comprising
 - a first acceleration input for receiving said movable element acceleration signal,
 - a second acceleration input for receiving said reference element acceleration signal, and